

Exponential and Basic Algebra

Contents

Part I: Chapter Summary

Number Types -----	1
Exponents -----	3
Basic Rules -----	3
Definition of Power for: Zero, Negative and Rational-----	5
Rational Exponents -----	7
The Order of Operations -----	9
Operations with Algebraic Expressions -----	11
Factorisation -----	18
Operations with Algebraic Fractions -----	30

Part II: Worked solution to the Exercises From New Q Maths 11B

Exercise 1.2 - Question 1f-----	39
Exercise 1.2 - Question 1l-----	40
Exercise 1.2 - Question 2a-----	41
Exercise 1.2 - Question 2d -----	41
Exercise 1.2 - Question 2L -----	42
Exercise 1.2 - Question 3e-----	43
Exercise 1.2 - Question 3k -----	44
Exercise 1.2 - Question 3L -----	45
Exercise 1.2 - Question 5c-----	46
Exercise 1.2 - Question 5f-----	47

Exercise 1.2 - Question 5j	48
Exercise 1.2 - Question 5k	50
Exercise 1.2 - Question 5L	51
Exercise 1.2 - Question 6c	52
Exercise 1.2 - Question 6f	53
Exercise 1.2 - Question 7v	54
Exercise 1.2 - Question 7w	55
Exercise 1.2 - Question 8f	56
Exercise 1.3 - Question 1L	57
Exercise 1.3 - Question 2L	57
Exercise 1.3 - Question 3L	58
Exercise 1.3 - Question 5L	59
Exercise 1.3 - Question 6j	60
Exercise 1.4 - Question 1k	61
Exercise 1.4 - Question 2o	62
Exercise 1.4 - Question 2s	62
Exercise 1.4 - Question 2t	63
Exercise 1.5 - Question 1b	64
Exercise 1.5 - Question 1d	65
Exercise 1.5 - Question 1h	66
Exercise 1.5 - Question 1j	67
Exercise 1.5 - Question 1w	68
Exercise 1.5 - Question 1x	69
Exercise 1.5 - Question 2f	69
Exercise 1.5 - Question 3g	70
Exercise 1.5 - Question 3j	71
Exercise 1.6 – Question 1g	72
Exercise 1.8 - Question 1b	73
Exercise 1.8 - Question 1d	74
Exercise 1.8 - Question 1f	76
Exercise 1.8 - Question 2c	77
Exercise 1.8 - Question 2f	78
Exercise 1.8 - Question 3c	79

Exercise 1.8 - Question 3f	80
Exercise 1.9 - Question 3a	81
Exercise 1.9 - Question 3b	82
Exercise 1.9 - Question 3c	83
Exercise 1.9 - Question 7a	84
Exercise 1.9 - Question 9a	85
Exercise 1.9 - Question 9b	86
Exercise 1.9 - Question 10a	87
Exercise 1.9 - Question 10b	88